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Pifithrin-α

Figure 1

 $Pifithrin\text{-}\beta$ 

Figure 2

EDTMP

Figure 3

$$H_2O_3P$$
 $N$ 
 $PO_3H_2$ 
 $H_2O_3P$ 
 $DOTMP$ 

Figure 4

Figure 5

Figure 6

$$NH_2$$
 $NH_2$ 
 $NH_2$ 

MTX-BP

Figure 7

Figure 8

ACL-3

Figure 9

Figure 10

Figure 12

$$\begin{array}{c} O \\ O \\ O \\ O \\ S \\ \end{array} \begin{array}{c} NH \\ Ac_2O, AcONa \\ H_2O \\ \end{array} \begin{array}{c} P \\ CD_3 \\ H_2O \\ \end{array} \begin{array}{c} P \\ CD_3 \\ H_2O \\ \end{array} \begin{array}{c} CD_3 \\ R \\ \end{array} \begin{array}{c} CD$$

Figure 13

$$\frac{R_1R_2NH}{37\% \text{ formalin}}$$
overnight, RT
$$\frac{pH=7.5}{50 \text{ mM Phosphate}}$$

$$\frac{PH=7.5}{2}$$

Figure 14

Figure 15

Cis-Aconitic Anhydride

Figure 16

Figure 17

$$\underbrace{\frac{\text{AE}}{\text{O}}}_{\text{O}} \underbrace{\frac{\text{R}_{1}\text{OH}, \text{R}_{2}\text{OH}}{\text{mixture}}}_{\text{R}_{1}\text{O}} \underbrace{\frac{\text{R}_{1}\text{O}}{\text{O}}}_{\text{O}} \underbrace{\frac{\text{O}}{\text{O}}}_{\text{O}} \underbrace{\frac{\text$$

Figure 18

$$AG$$
 (10H +  $AG$  (10H +  $AG$ 

Figure 20

Figure 21

$$\begin{array}{c|c}
CI \\
CH_3 \\
\hline
H_2CO, SOCl_2 \\
\hline
MORPH MINING MEDICAL MEDICAL$$

Figure 22

Figure 23

Figure 24

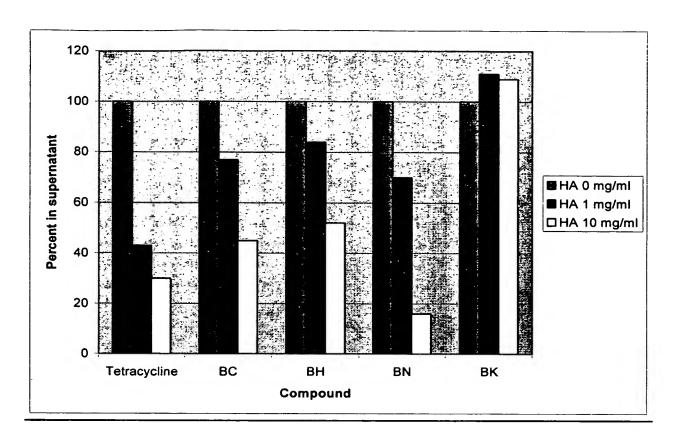


Figure 25

$$HO$$
 $H_2PO_3, H_2CO$ 
 $CORC. HCI$ 
 $HO$ 
 $PO_3H_2$ 
 $PO_3H_2$ 
 $PO_3H_2$ 
 $PO_3H_2$ 
 $PO_3H_2$ 
 $PO_3H_2$ 
 $PO_3H_2$ 
 $PO_3H_2$ 

Figure 26

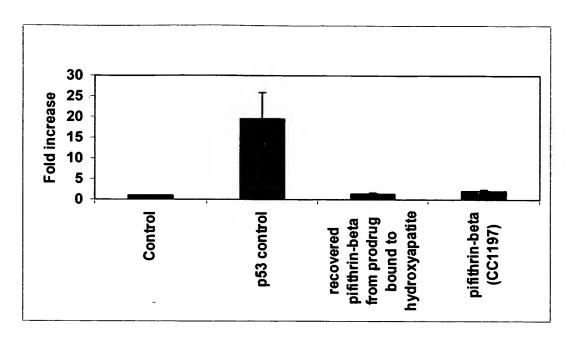


Figure 27

Figure 28

Figure 29

Figure 30

Figure 31

Figure 32

Figure 33

Figure 34

Figure 35

<u>DO</u>

Figure 36